PROVISION ISR

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OSD

WDR

Digital ZOOM X6

High Resolution

Digital CCTV Camera

UltraVision Series

MANUAL

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RoHS Compliant

FC

CE

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Note: Only professional technicians is allowed to open the front or back cover of this camera.

Note:
In order to avoid electrical shock or fire, please use proper power according to the manual.

General

Thank you for using our products. Before use, please read this manual carefully to ensure correct use of this series of products. Please keep the manual properly for future use.
This series of cameras take high-sensitivity CCD as the image sensor, all circuits have long work life and high reliability. Excellent image will be top choice for your camera.

Precautions

1. Do not install the camera in places where the temperature is above 50°C or under -10°C.
2. Do not touch the CCD surface with your finger. If cleaning is needed, please wipe it using a soft cloth with a little bit of alcohol.
3. Do not install in places with high humidity, it can seriously damage the quality of the picture.
4. Do not drop the camera and avoid physical shock.
5. Do not face your camera to a strong light, it can damage the CCD.
6. Do not expose the camera to rain or dusty surroundings.
7. Its highly important to use the correct and suitable power supply(DC12V) for the camera.
8. Only professional and qualified technician can install and test
9. During use, if any errors occur, cut off the power immediately and contact your local distributor.

Features

WDR (Wide Dynamic Range):
Provides a powerful Wide Dynamic Range solution, allows the camera to provide vivid colors without losing details. The difficult lighting is automatically compensated to extract the details in both bright and dark areas, without having cutoff or saturation.
The UltraVision DSP enhanced WDR performance has strong light compensation, so it always shows clear and perfect contrast picture in any environment.

D-DNR (Digital Noise Reduction):
Equipped with the most advance Motion compensated 3D-DNR (3-Dimensional Digital Noise Reduction) function.
With this powerful DSP image noise can be removed efficiently and it shows clean and obvious image in low luminance.
The result is a superior noise reduction with less motion blurring artifacts even in extreme low-light situations.

TVL2 – Ultra High H&V Resolution:
Both Vertical and Horizontal resolutions are ultra-high. While high-resolution cameras improve the horizontal resolution only, UltraVision DSP cameras achieve horizontal resolution of 600 TV Lines at color mode, and up to 700 TV Lines with Black/White sensors, and at the same time also reach a vertical resolution of 580TVL. All of these provide clean, noiseless and reliable pictures.

Eclipse:
The Eclipse function blocks out high-brightness areas and enables better visibility of other areas. An example of the eclipse function usage is an ability to recognize the number plates on a vehicle at night, where the headlights are too bright.

DIS (Digital Image Stabilization):
Performs digital image stabilization to allow stable and pleasant video even in situations where the camera is shaking. This feature is especially important for the high-zoom cameras where every small movement of the camera is highly noticeable and disturbing for the observer.

D Zoom x1-x10:
Advance digital zooming technology enables a programmable magnification of up to factor of 10, and scales the region of interest to the whole screen.

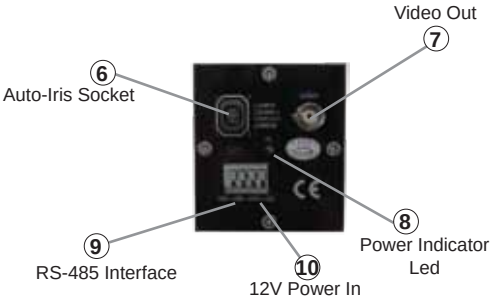
Vertical and Horizontal flip:
Built-in mechanism enables the vertical and horizontal flipping of the image, to allow an easy installation of the camera regardless of its holding position.

Bad Pixel Correction:
Supports bad pixels correction for compensating the CCD non-uniform, blemish pixels. Up to 64 defects can be fixed. The result is clear image with no white spots even at long integration time (DSS).

Privacy Masking:
Protects the privacy of the pictured area by placing a mask over the video output at the defined privacy zones. The camera allows the size and position of masking area to be freely defined within the frame. Up to 8 AREAS can be masked. Mask color is programmable

Structure and Components

Tailplate Sketch



Connecting your camera

- Connecting the lens

Before mounting a lens, please check whether it is a C-mount or CS - mount lens. The back focus is set for the CS-mount lens at the factory. Connect your lens by turning it clockwise to the Lens mount ring (4), In case of auto iris lens, connect the lens cable to the Auto iris socket (6).

- Video out

Connect the video out (8) of the camera to the monitor or other video equipments (DVR) with a 75 ohm cable (RG59).

- Connecting the power

Before connecting your power supply, please make sure it's the correct one (12VDC). Power is connect by two wires.
Make sure you plug the power in the right direction "+12V" = "+", "GND" = "-"(10).

- Connection RS845

If you want to connect an external control device or a DVR stand alone. You can connect the two wires to the RS485 on the Terminal Block (9). Make sure to connect +/- in the right sockets ("+" is the first one from the left and "-" in the one after).

- Focusing

Back focus – back focus is adjusted when the camera leaves the factory, Therefore no more adjustments is needed.
However, in case you can't reach optimize focus by the lens focus ring(4), untie the back focus screw(2), then turn the lens mount ring clockwise or counter clockwise until the image is clear, then retighten the lens mount screw.

OSD Menu

This camera utilizes an on-screen user MENU. To set items on the menu, use the following buttons on the OSD panel.

▲ – Moves the cursor upwards.
▼ – Moves the cursor downwards.
◄ – Moves the cursor to the left.
► – Moves the cursor to the right.
O – Display the MAIN MENU, press to make selections and display a submenu for an item with the mark.

OSD Main Menu

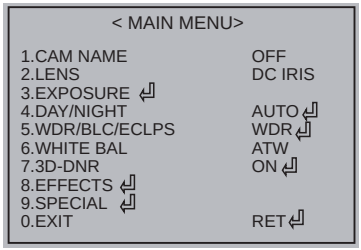
Main Menu

- Cam Name
  - On/Off
- Lens
  - DC IRIS/Manual
- Exposure
  - AGC / Shutter / Sens-Up / Initial Set / Previous
- Day/Night
  - Day / Night / EXT – WDR Level / Auto – D/N Level, Filter Dly, Night Burst, Initial Set.
- WDR/BLC/ECLPS
  - WDR Level / BLC Level / Eclipse – Area Settings, All Area Set, Mask Color, Eclps Level, Gain Control.
- White Bal
  - ATW / Col Roll / Push / Manual – Color Temp, Red, Blue, Initial Set.
- 3D-DNR
  - ON/OFF
- Effects
  - Dzoom mode, Image Freeze, D-Effect, Color, Contrast, Sharpness, CR Gain, CB Gain, Initial Set.
- Special
  - Motion Det', Privacy Mask, Language, Stabilizer, L/L Sync, Monitor Type, Factory Reset, Comm Set.
- Exit

OSD Menu Operation

- To enter the **MAIN MENU** screen Press **O**.
  The **MAIN MENU** screen appears on the monitor.
- To exit the **MAIN MENU** screen.
  Use ▲ or ▼ button to select the **EXIT** then Press **O**.

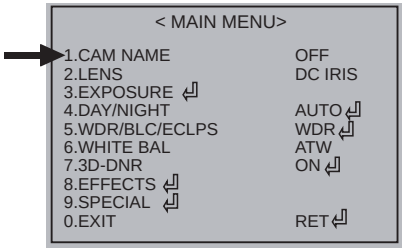
> **Note:**
> When you see the ⏎ sign
> Press **O** for sub-menus.



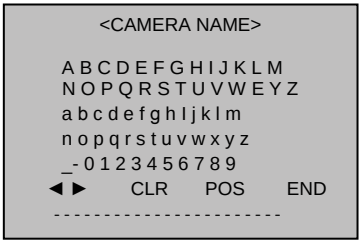
1) Camera Name

You can set a name for your camera which will be displayed on the monitor.

- Scroll to **CAM NAME** using ▲ or ▼.
- use ◄ or ► to select **ON** and press **O**.



- Navigate the letters Using ◄ ►▲▼ and press **O** to confirm a letter.
- After typing your name select **END** to return to the **MAIN MENU**.



> **CLR:** Clear the selected name.
> **END:** Return to **MAIN MENU**.

- You can also adjust the position of the name on your monitor. For adjusting select **POS** and press **O**.
- Use ▲▼◄► to move your name across the monitor and press **O** when finished.

2) Lens

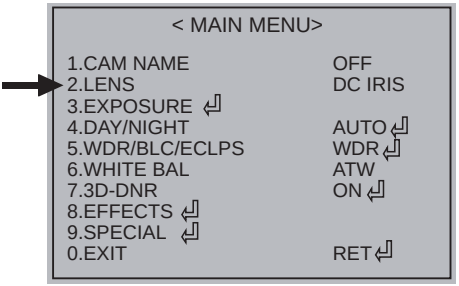
Iris is mechanism which closes and opens allowing more or less light into the lens.

The camera supports two types of lens:

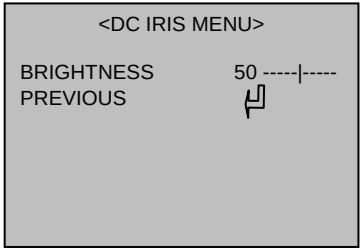
* **MANUAL** Iris lens, where the aperture is fixed or set manually by the user
* **DC** Iris Lens, in which the aperture is continuously controlled by the camera to automatically set to the desired level of brightness.

The LENS menu allows you to set the lens which attached to your camera, and to adjust the desired brightness if DC lens is used.

- Scroll to **LENS** using ▲ or ▼
- Use ◄ or ► to select between **MANUAL** and **DC IRIS**.
- When selected MANUAL there is no need for more settings.



- When selected **DC IRIS** you can press **O** for entering **DC IRIS MENU**
  In order to set the **BRIGHTNESS** level.
- Use ◄ or ► to select the **BRIGHTNESS** level 0-100.

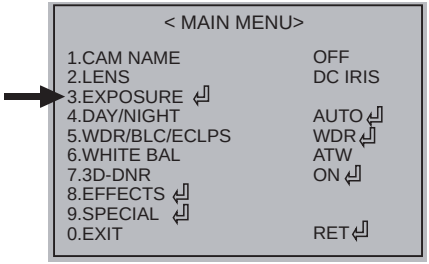


PREVIOUS – Return to previous menu

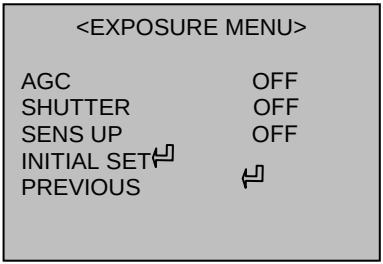
3) Exposure

To compensate for the lighting conditions, the exposure control can be adjusted.
Use this menu to set the means for the camera to automatically control the brightness.
Available means include automatic gain control (AGC), electronic light control (ELC or SHUTTER) and slow-shutter (SENS-UP).
These settings determine how the cameras will behave at various light levels and affect video image quality.

- Scroll to EXPOSURE using ▲ or ▼.



- Press **O** to enter the EXPOSURE MENU.



AGC (Automatic Gain Control)

At low-lighting conditions, if the image is too dark, select between **OFF/LOW/MIDDLE/HIGH**. Higher AGC level means the camera would amplify the CCD input signal more, and the image would become brighter, but noisier.

- Scroll to **AGC** using ▲ or ▼.
- Use ◄ or ► for selecting the allowed gain level.

SHUTTER

Controls the amount of light according to your own environment- Increase shutter value in dark places for a brighter picture Decrease shutter value in places with more light for reducing amount of light.

- Scroll to **SHUTTER** using▲ or ▼.
- Use ◄ or ► to change the shutter speed: **AUTO / OFF / A.FLK / 1/160 – 1/90000, X2 – X512.**

SENS-UP

When this mode enabled, the camera would use digital slow shutter of over a field-time when needed. Field time is equal to 1/50 sec (PAL) or 1/60 (NTSC). The menu allow the setting of the shutter limitation, where x2 refers to 1/50 sec, x50 is 1second, etc.

- Scroll to **SENS-UP** using ▲ or ▼.
- Use ◄ or ► to set **SENS-UP** limit **OFF/X2 – X512**. Values of more than X16 will cause objects in motion to look blurred at low light condition.

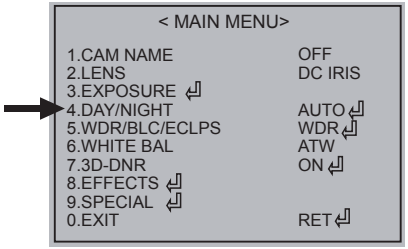
Note:
SENS-UP settings will be available only if selected **AUTO / A.FLK** in the **SHUTTER** menu. If not available, **SENS-UP** will be marked with - - - sign.

INITIAL SET – Back to factory default.
PREVIOUS – Return to previous menu

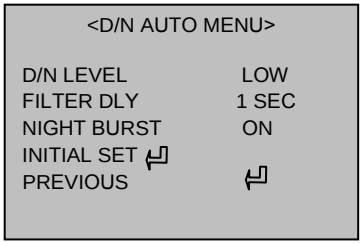
4) Day/Night Settings

Day/Night refers to the mechanism of changing of the optical filter between IR-cut filter to non-IRC filter. **AUTO** - set the filter automatically, **DAY** - force the usage of the IRC filter (color), and **NIGHT**- force usage of IR-PASS filter (and display B&W image). **EXT**- is used for Smart-IR mode when the IR-LED board provides the light info to the camera.

- Scroll to **DAY/NIGHT** using ▲or▼.
- Choose **DAY/NIGHT/EXT/AUTO** using ◄ or ►.



a) If selected **AUTO** press **O** to enter **D/N AUTO MENU**



D/N LEVEL

Level of darkness in which the camera would switch the IR filter from Day to Night

- Scroll to **D/N LEVEL** using ▲or▼.
- Use ◄ or ► to change between **LOW/MIDDLE/HIGH**.

FILTER DLY

Time (in seconds) to wait before switching between Day/ Night modes.

- Scroll to **FILTER DLY** using ▲or▼.
- Use ◄ or ► change Value from 1sec – 60sec.

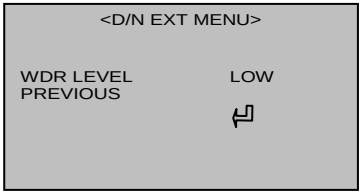
NIGHT BURST

Allow disable the color burst in the video signal at Night mode.

- Scroll to **NIGHT BURST** using ▲or▼.
- Use ◄ or ► to switch **ON/OFF**.

b) If Selected **EXT** press O to enter **D/N EXT** Menu.
This is related to the Smart-IR when working with IR-LED camera. It refers to the level of saturation the camera should allow at night when the IR LED works.

- Use ◄or► to select level between **LOW/MIDDLE/HIGH**.



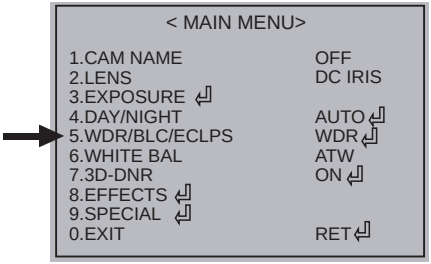
INITIAL SET – Back to factory default
PREVIOUS – Return to previous menu

Note:
If selected **AGC OFF** options in the **EXPORURE** menu the **AUTO** option in **DAY/NIGHT** menu won't be available and the --- sign will be displayed.

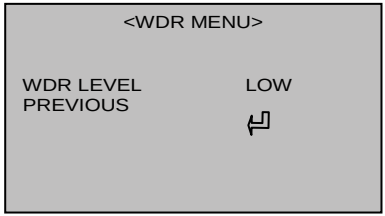
5) WDR/BLC/ECLPS

WDR is used when your want to see BOTH bright and dark zones of the image. In the mode, you will see the details in both the dark and bright; however, the image sometimes looks a little 'flat'.

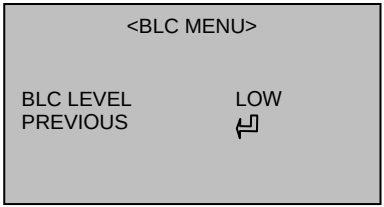
- Scroll to **WDR/BLC/ECLPS** using▲ or ▼.
- Use ◄ or ► to switch between .



a) If selected WDR press **O** to enter **WDR MENU**.
- Use ◄or► to select **WDR** level between **LOW/MIDDLE/HIGH**.

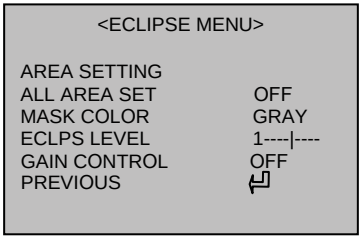


b) If selected **BLC** press **O** to enter **BLC MENU**.
BLC is used when you have a WDR scene, and you want to see the DARK zone, and you do not mind if the bright zone would be saturated.
- Use ◄or► for selecting BLC level between **LOW/MIDDLE/HIGH**.

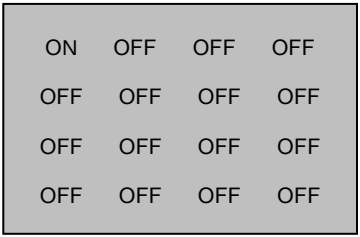


PREVIOUS – Return to previous menu

c) If selected Eclipse press **O** for entering **ECLIPSE MENU**.
ECLIPSE is mainly used when you want to see cars at night, and want to mask the car strong head-lights.



AREA SETTING
- Scroll to AREA SETTING using ▲ or▼ and press O.
Inside you have 16 in depended ON/OFF areas that you can set manually according to the requirements of the actual environment.



Use ◄ or ► to move across the screen and use ▲or▼ to set **ON/OFF**.
Press **O** anywhere on the screen to return to **ECLIPSE MENU**.

ALL AREA SET
Instead of setting each area individually you can select or deselect all areas.
- Scroll to **ALL AREA SET** using ▲ or ▼.
- Use◄ or ► to set **ON/OFF**.

MASK COLOR
You can choose the color of the eclipse mask.
- Scroll to **MASK COLOR SET** using ▲ or ▼.
- Use◄ or ► to select a color - **GREY, D.GREY, BLACK**.

<ECLIPSE MENU>

AREA SETTING	
ALL AREA SET	OFF
MASK COLOR	GRAY
ECLPS LEVEL	1----|----
GAIN CONTROL	OFF
PREVIOUS	

ECLPS LEVEL

You can choose the **ECLIPSE LEVEL** between **1–5**.

Higher values will increase start the masking at higher level.

- Scroll to **ECLPS LEVEL** using ▲ or ▼.
- Use◄ or ► to set a level between **1-5**.

GAIN CONTROL

You can set an automatic control for the ECLIPSE LEVEL gain.

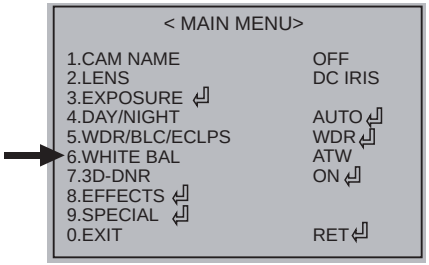
- Scroll to **GAIN CONTROL** ▲ or ▼.
- Use◄ or ► to select **ON/OFF**.

PREVIOUS – Return to previous menu

6) White Balance Settings

White balance setting can be adjusted according to the color temperature of object.

- Scroll to **WHITE BAL** using ▲ or ▼.
- Use◄ or ► to select between **ATW / COL-ROLL / PUSH / MANUAL.**



ATW

In **outdoor environment** the color temperature is between **2500°K~9500°K**,

For that it's recommended to use **ATW**.

COL-ROLL

In **indoor environment**, the color temperature is between **2000°K~20000°K**.

For that it's recommended to use **COL-ROLL**.

PUSH

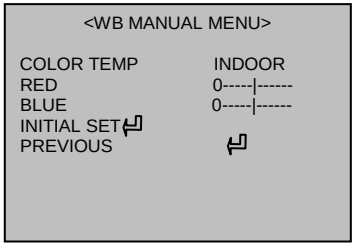
It is use in environment full of none “white” light (like bright yellow light) which affect the **AWB** and cause a falls color under **AWB**.

In this case you can take a white paper in natural light environment and choose **PUSH**. The **WB** values will be set from now and will not change automatically any more.

MANUAL

For Setting up **WHITE BALACE SETTING** manually select **MANUAL** and press **O**,

The **WB MANUAL MENU** will appear



COLOR TEMP

- Scroll to **COLOR TEMP** using ▲ or ▼.
- Use ◄ or ► to set **INDOOR/OUTDOOR** according to environment conditions.

RED

- Scroll to **RED** using ▲ or ▼.
- Use ◄ or ► to set amount of **RED**.

BLUE

- Scroll to **BLUE** using ▲ or ▼.
- Use ◄ or ► to set amount of **BLUE**.

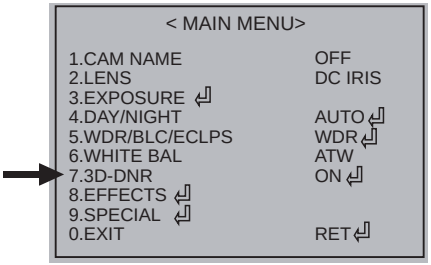
INITIAL SET – Back to factory default.

PREVIOUS – Return to previous menu

7) 3D-DNR

The camera is equipped with the most advance Motion compensated 3D-DNR (3-Dimensional Digital Noise Reduction) function; it operates in both spatially and temporally, while calculating and compensating for motion in the image to minimize ghosts. The result is a superior noise reduction with less motion blurring artifacts even at extreme low-light situations.
This menu allows the tuning of the camera behavior at low light condition and balance between image quality parameters as noise level versus bluer and ghost.

- Scroll to **3D-DNR** using ▲ or ▼.
- Use ◄ or ► to select **OFF/ON**.



- If Selected **ON** press **O** for more settings and the **3D-DNR MENU** will appear.

DNR LEVEL

Set the level of noise reduction. The more reduction is set, the image would be more blurry, but with less noise.

- Scroll to **LEVEL** using ▲ or ▼.
- Use ◄ or ► to select level between **0-63**.

DESTINATION

Set the level of brightness at low-light conditions.

- Scroll to **DESTINATION** using ▲ or ▼.
- Use ◄ or ► to select level between **0-63**.

GLOBAL MOVMENT

Allows more or less Movement vs. Motion blurs.

- Scroll to **GLOBAL MOVMENT** using ▲ or ▼.
- Use ◄ or ► to select **ON/OFF**.

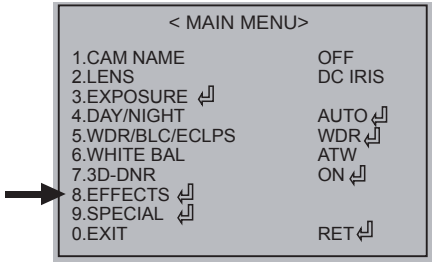
Note:
If selected **AGC OFF** in the **EXPOSURE** menu, the **3D-DNR** function on the **MAIN MENU** will be automatically **OFF**!

PREVIOUS – Return to previous menu.

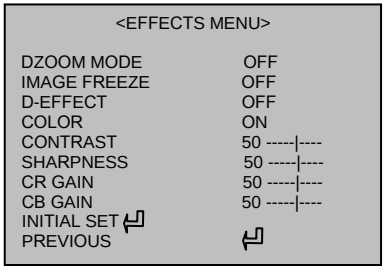
8) EFFECTS MENU

Here you can find a collection of special effects to handle the image.

- Scroll to **EFFECTS** using ▲ or ▼.



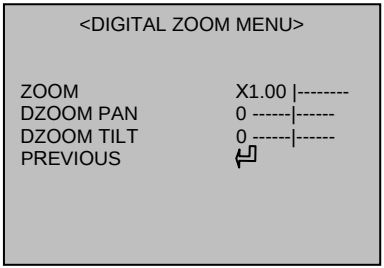
- Press **O** and the **EFFECTS MENU** will appear



DZOOM MODE

Allows you to digitally zoom the image and tour inside it.

- Scroll to **DZOOM MODE** using ▲ or ▼.
- Use ◄ or ► to select **ON/OFF**.
- If selected **ON** press **O** and the **DIGITAL ZOOM MENU** will appear.



ZOOM

- Scroll to **ZOOM** using▲ or ▼.
- Use ◄ or ► to select zoom level **X1.00 - X6.13**.

DZOOM PAN

- Scroll to **DZOOM PAN** using ▲ or ▼.
- Use◄ or ► to select PAN LEVEL **-100 - +100**.
- Use◄ for left, ► for right.

DZOOM TILT

- Scroll to **DZOOM TILT** using ▲ or ▼.
- Use ◄ or ► to select TILT LEVEL **-100 - +100**
- Use◄ for up, ► for down.

PREVIOUS – Return to previous menu

IMAGE FREEZE

Pausing the live image.

- Scroll to **IMAGE FREEZE** using▲ or ▼.
- Use ◄ or ► to select **ON/OFF**.

<EFFECTS MENU>

DZOOM MODE	OFF
IMAGE FREEZE	OFF
D-EFFECT	OFF
COLOR	ON
CONTRAST	50 -----|----
SHARPNESS	50 -----|----
CR GAIN	50 -----|----
CB GAIN	50 -----|----
INITIAL SET ⏎	
PREVIOUS	⏎

Note:
When selected I**MAGE FREEZE- ON DZOOM MODE**
won't be available and the --- Sign will appear.

D-EFFECT

Help you with extreme mounting of the camera

- Scroll to **D-EFFET** using ▲ or ▼.
- Use ◄ or ► to select between **OFF/V-FLIP/MIRROR/ROTATE**.

Example:

OFF

V-FLIP

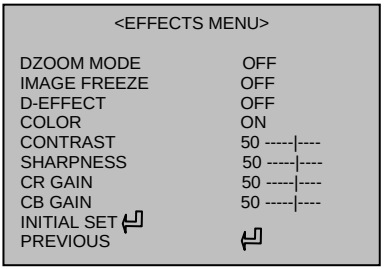
MIRROR

ROTATE

COLOR

Set Color/Black & White picture.

- Scroll to **COLOR** using ▲ or ▼.
- Use ◄ or ► to set **ON/OFF**.



CONTRAST

Set the **CONTRAST** of the picture.

- Scroll to **CONTRAST** using ▲ or ▼.
- Use ◄ or ► to select **contrast** level between **0 – 100**.

SHARPNESS

Set the **SHARPNESS** of the picture.

- Scroll to **SHARPNESS** using ▲ or ▼.
- Use ◄ or ► to select **sharpness** level between **0 – 100**.

CR GAIN

Set **CR GAIN** level.

- Scroll to **CR GAIN** using ▲ or ▼.
- Use ◄ or ► to select **CR Gain** level between **0 – 100**.

CB GAIN

Set **CB GAIN** level.

- Scroll to **CB GAIN** using ▲ or ▼.
- Use ◄ or ► to select **CB Gain** level between **0 – 100**.

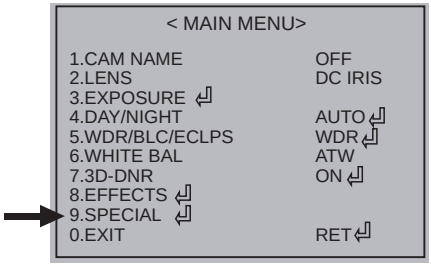
INITIAL SET – Back to factory default.

PREVIOUS – Return to previous menu

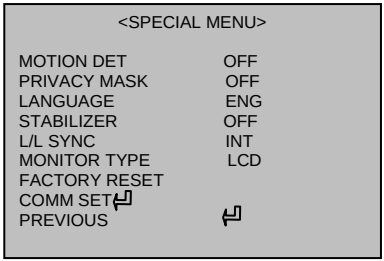
9) SPECIAL MENU

Here

- Scroll to **SPECIAL** using ▲ or ▼.



- Press **O** and the **SPECIAL MENU** will appear.



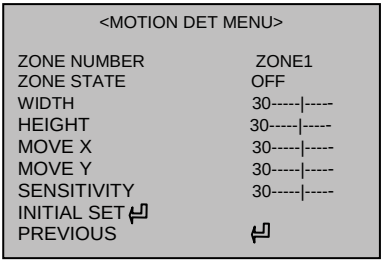
MOTION DETECT

Your camera transmits an alert signal when it detects motion of an object on the screen. You can connect the camera to an external alarm or recording system, and activate it when the camera detects motion.

The camera allows up to 8 independently-defined zones to be monitored for motion.

You can control **ON/OFF/WIDTH/HEIGHT/MOVE X/MOVE Y** of each zone independently to define if the motion detection mechanism would be active at the zone or not, and to set the zone location in the image and its sensitivity.

- Scroll to **MOTION DET** using ▲ or ▼.
- Use ◄ or ► to set **ON/OFF**.
- If select **ON** press **O** for more settings and the **MOTION DET MENU** will appear.



ZONE NUMBER

- Scroll to **ZONE NUMBER** using ▲ or ▼.
- Use ◄ or ► to select **ZONE1 – ZONE 8**.

ZONE STATE

- Scroll to **ZONE STATE** using ▲ or ▼.
- Use ◄ or ► to set **ON/OFF**.

WIDTH

Enlarge or decrease the horizontal size of the zone

- Scroll to **WIDTH** using ▲ or ▼.
- Use ◄ or ► to change width **16 – 90**.

HEIGHT

Enlarge or decrease the vertical size of the zone.

- Scroll to **HEIGHT** using ▲ or ▼.
- Use ◄ or ► to change height **12 – 54**.

MOVE X

Moves horizontal position of the zone.

- Scroll to **MOVE X** using ▲ or ▼.
- Use ◄ or ► to move left or right **8 – 92**.

MOVE Y

Moves vertical position of the zone

- Scroll to **MOVE Y** using ▲ or ▼.
- Use ◄ or ► to move up or down **26 - 74**.

SENSITIVITY

You can set different sensitivity level to each zone. The more sensitive the detection is, it would detect even smaller motion, but it might cause more false alarms, and vise versa.

- Scroll to **SENSITIVITY** using ▲ or ▼.
- Use ◄ or ► to change sensitivity level **0 – 100**.

INITIAL SET – Back to factory default

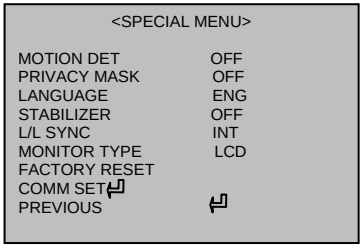
PREVIOUS – Return to previous me

PRIVACY MASK

This function is aiming at the protection of personal privacy, You can select up to 8 parts on the screen to be masked with colored cover.

Size and location of the area is also adjustable.

- Scroll to **PRIVACY MASK** using▲ or ▼



- Press **O** and,the **PRIVACY MASK MENU** will appear.

<PRIVACY MASK MENU>

MASK NUMBER	MASK1
MASK STATE	OFF
MASK COLOR	GRAY
WIDTH	30-----|-----
HEIGHT	30-----|-----
MOVE X	30-----|-----
MOVE Y	30-----|-----
INITIAL SET ⏎	
PREVIOUS	⏎

MASK NUMBER
- Scroll to **MASK NUMBER** using ▲ or ▼.
- Use ◄ or ► to select **MASK 1 – MASK 8**.

MASK STATE
- Scroll to **MASK STATE** using ▲ or ▼.
- Use ◄ or ► to set **ON/OFF**.

MASK COLOR
- Scroll to **MASK COLOR** using ▲ or ▼.
- Use ◄ or ► to select a color
  GRAY/WHITE/RED/GREEN/BLUE/YELLOW/BLACK.

WIDTH
Enlarge or decrease the horizontal size of the mask.
- Scroll to **WIDTH** using ▲ or ▼.
- Use ◄ or ► to change **width 4 - 60**.

HEIGHT
Enlarge or decrease the vertical size of the mask.
- Scroll to **HEIGHT** using ▲ or ▼.
- Use ◄ or ► to change **height 4 - 50**.

MOVE X
Moves horizontal position of the mask.
- Scroll to **MOVE X** using ▲ or ▼.
- Use ◄ or ► to move left or right **2 - 98**.

MOVE Y
Moves vertical position of the mask
- Scroll to **MOVE Y** using ▲ or ▼.
- Use ◄ or ► to move up or down **2 - 98**.

INITIAL SET – Back to factory default
PREVIOUS – Return to previous menu

LANGUAGE
You can select a language for the **OSD MENU**.
- Scroll to **LANGUAGE** using ▲ or ▼.
- Use ◄ or ► to set a language:
  ENGLISH/ CHINES/RUSSIAN/SPANISH/FRENCH.

<SPECIAL MENU>

MOTION DET	OFF
PRIVACY MASK	OFF
LANGUAGE	ENG
STABILIZER	OFF
L/L SYNC	INT
MONITOR TYPE	LCD
FACTORY RESET	
COMM SET ⏎	
PREVIOUS	⏎

STABILIZER
This function helps to stabilize the picture and reduce the image shake when the camera physically moves. This function is useful especially when using a high-zoom lens, where every small movement of the camera results in shake of the image.

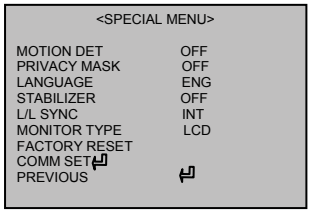
- Scroll to **STABILIZER** using ▲ or ▼.
- Use ◄ or ► to set **ON/OFF**.

L/L SYNC
The Line-Lock (L/L) feature allows the camera to synchronize its frame rate to the power line phase. The function is only available when the camera is operated by AC power. It allows the reduction of the fluorescent lights color rolling effect. When using 12v DC power, the camera is automatically set to internal (INT) synchronization mode.

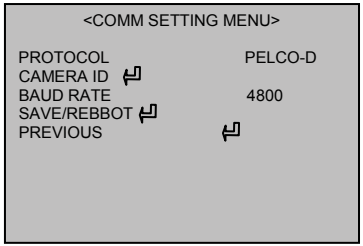
MONITOR TYPE
You can choose the type of screen you are working with between **CRT/LCD**.
- Scroll to **MONITOR TYPE** using ▲ or ▼.
- Use ◄ or ► to select **CRT/LCD**.

FACTORY RESET
Restore all settings to factory default settings.
- Scroll to **FACTORY RESET** using ▲ or ▼.
- Press **O** for resetting.

COMM SETTINGS
- Scroll to **SPECIAL MENU** using ▲ or ▼.

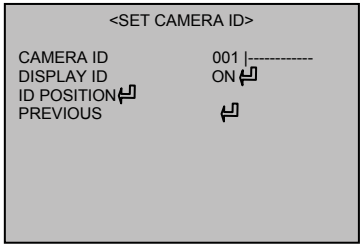


- Press **O** and the **COMM SETTING MENU** will appear.



PROTOCOL – PELCO-D (Unchangeable setting).

Camera ID
You can set an ID number for your camera.
- Scroll to CAMERA ID using ▲ or ▼ and press **O**, the **SET CAMERA ID** menu will appear.



Camera ID - Default 001
- Scroll to **CAMERA ID** using ▲ or ▼.
- Use ◄ or ► to select an ID number **0 – 255**.

DISPLAY ID
You can choose if your camera ID will be displayed or not.
- Scroll to **DISPLAY ID** using ▲ or ▼.
- Use ◄ or ► to select **ON/OFF**.

ID POSITION
You can choose the position where your camera ID will be displayed on the monitor.
- Scroll to **ID POSITION** using ▲ or ▼and press **O**.
- Use ◄ or ► to select a position and press **O** when finished.

PREVIOUS – Return to previous menu.

BAUD RATE - Default 9600
- Scroll to **BAUD RATE** using ▲ or ▼.
- Use ◄ or ► to **set baud rate** value **4800/9600/19200/38400/57600.**

SAVE/REBOOT
Saves settings and reboots the camera.
- Scroll to **SAVE/REBOOT** using ▲ or ▼.
- Press **O** to **SAVE/REBOOT**.

PREVIOUS – Return to previous menu.

Specifications

Model No.	BX-361UV
Power	DC12±10% Max 2.0W
Sensor	1/3 inch Sony *Super*HAD CCD II
Total Pixels	NTSC:811(H)×508(V)
	PAL:795(H)×595(V)
Effective Pixels	NTSC:768(H)×494(V)
	PAL:752(H)×582(V)
Scanning System	2:1 Interlace
Sync. System	Internal/Line lock
O.S.D	Available
Dynamic Range	52dB(×128)
Backlight Compensation	WDR/BLC/OFF selectable
Resolution	Color 600TVL
S/N(Y Signal)	52dB(AGC OFF)
Minimum Illumination	Color Model: 0.003(0.6) Lux(Sens-up OFF)
	B/W Model: 0.0001(0.1) Lux(Sens-up OFF)
White Balance	ATW/AWC/Manual/Outdoor(1,800°K~10,500°K)Indoor(4,500°K~8,500°K)
Electronic Shutter Speed	NTSC:1/60sec-1/120,000sec PAL:1/50sec-1/120,000sec
Sense-up	Auto/Fixed/Off(selectable limit ×2~×512)
Gain Control	Low/Middle/High/Off selectable
3D-DNR	Off/On(1~63 level adjustable)
Motion Detection	On/Off(8Zone, Alarm output)
Privacy	On/Off(8Zone)
Mirror(H-REV)	ON/OFF
FLIP(V-REV)	ON/OFF
Freeze	ON/OFF
SHARPNESS	ON/OFF(Level Adjustable)
D/N Selection	Color/Black White/Auto/Exit
STABILIZER	ON/OFF
Digital Zoom	On(×6)/Off
Blemish compensation	64 Point(Even 32 point, ODD 32 point)
Iris Control	DC / Manual
Dimension	42(H)×42(V)×1.2(T)mm
Weight	410g